## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS:

1-17, (canceled)

18. (currently amended) A computer-readable information recording medium on which there is recorded:

an object data file for collectively storing object data which includes a first stream having video information to indicate a main-video and a second stream having sub-video information, sub-video control information, wherein;

the sub-video information to indicate indicating a subvideo displayable at least partially over the main-video and

the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element;

a play list information file for collectively storing, in an area which is different from an area into which the object data file is stored a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item; and

an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item.

19. (previously presented) The computer-readable information recording medium according to claim 18, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.

20. (previously presented) The computer-readable information recording medium according to claim 19, wherein

the sub-video control information further includes subframe range information to specify at least a partial area of the sub-video as a sub-frame,

the control information element comprises information for controlling the sub-video information by a unit of the sub-frame, and

the type indication information indicates the presence or absence, or the effectiveness or ineffectiveness of the control information elements by the unit of the sub-frame.

- 21. (previously presented) The computer-readable information recording medium according to claim 19, wherein the type indication information comprises table information including one bit of information by each of the types.
- 22. (previously presented) The computer-readable information recording medium according to claim 21, wherein the table information includes extension bit information which is not associated with the types, and a part occupied by the control information elements in the sub-video control information is variable-length.
- 23. (previously presented) The computer-readable information recording medium according to claim 18, wherein the control information element includes dynamic control information to display the sub-video information dynamically.
- 24. (previously presented) The computer-readable information recording medium according to claim 18, wherein the control information element includes shading-display control information to selectively shade an opaque part out of the subvideo and display it over the main-video.
  - 25. (previously presented) The computer-readable

information recording medium according to claim 18, wherein the control information element includes (i) button information which defines at least a part of the sub-video which is to be displayed over the main-video, as a button video part which functions as a button, and (ii) highlight information which defines how to perform highlight-display control over the button video part.

26. (currently amended) The computer-readable information recording medium according to claim 18, wherein

the main-video information, the sub-video information and the sub-video control information are divided into predetermined packet units and multiplexed, and further streamed relatively into a video-the first stream composed of the divided main-video information, a sub picture—the second stream composed of the divided sub-video information set and a control information—the second stream composed of the divided sub-video control information.

- 27. (currently amended) An information record apparatus comprising:
- a first record device for recording <u>an object data file</u>

  <u>for collectively storing object data which includes a first stream having video information to indicate a main-video and a second stream having sub-video information, sub-video control information, wherein+</u>

a—second record device for recording—the sub-video information to indicateindicating a sub-video displayable at least partially over the main-video, ; and

a third record device for recording the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a second record device for recording a play list information file for collectively storing in an area which is different from an area into which the object data file is stored a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item and

a third record device for recording an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item.

28. (currently amended) The information record apparatus according to claim 27, wherein

the third-first record device records the second stream
the sub-video control information includes (i) a plurality of
types of control information elements for display control of the

sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.

29. (currently amended) An information record method comprising:

a first record process of recording <u>an object data file</u>

for collectively storing object data which includes a first

stream having video information to indicate a main-video <u>and a</u>

second stream having sub-video information sub-video control

information, wherein;

a second record process of recording the sub-video information—to indicate indicating a sub-video displayable at least partially over the main-video, ; and

a third record process of recording <u>the</u> sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a second record process of recording a play list information file for collectively storing in an area which is different from an area into which the object data file is stored, a play list information which defines a plurality of item

information each indicating a start time and an end time of the first and the second streams by a unit of item; and

a third record process of recording an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item.

30. (currently amended) The information record method according to claim 29, wherein

the third-first record process records the second stream having the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.

31. (currently amended) An information reproduction apparatus for reproducing information on an information record medium on which there are recorded: an object data file for collectively storing object data which includes a first stream having video information to indicate a main-video and a second stream having sub-video information, sub-video control information, wherein, the sub-video information—to indicate indicating a sub-video displayable at least partially over the

main-video, — and the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element a play list information file for collectively storing in an area which is different from an area into which the object data file is stored, a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item; and an object information which includes information for indicating a storing position of the first and second streams corresponding to each item,

said information reproduction apparatus comprising:

- a reproduction device for reproducing the play list information the object information which corresponds to the play list information, the video information of the first stream which corresponds to the object information, the sub-video information and the sub-video control information of the second stream which corresponds to the object information;
- a display output device capable of <del>displaying and</del> outputting the reproduced sub-video information over the reproduced video information; and
- a control device for controlling the display output device to display-control the sub-video information in the method

and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

32. (previously presented) The information reproduction apparatus according to claim 31, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control device controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the type indication information which is included in the reproduced sub-video control information.

33. (currently amended) An information reproduction method of reproducing information on an information record medium

on which there are recorded: an object data file for collectively storing object data which includes a first stream having video information to indicate a main-video and a second stream having sub-video information sub-video control information, wherein,+ sub-video information to indicate indicating a sub-video displayable at least partially over the main-video, ; and the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements; a play list information file for collectively storing in an area which is different from an area into which the object data file is stored, a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item; and an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item,,

said information reproduction method comprising:

a reproduction process of reproducing the play list information the object information which corresponds to the play list information, the video information of the first stream which corresponds to the object information, the sub-video information and the sub-video control information of the second stream which

## corresponds to the object information; and

a control process of controlling a display output device capable of displaying and outputting the reproduced subvideo information over the reproduced video information, to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

34. (previously presented) The information reproduction method according to claim 33, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control process controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the mainvideo, on the basis of the control information element whose presence or effectiveness is shown by the type indication

information which is included in the reproduced sub-video control information.

- 35. (currently amended) An information record reproduction apparatus comprising:
- a first record device for recording <u>an object data file</u>

  for collectively storing object data which includes a first

  stream having video information to indicate a main-video <u>and a</u>

  second stream having sub-video information sub-video control

  information, wherein +
- a second record device for recording\_the\_sub-video
  information\_to indicate\_indicating a sub-video displayable at
  least partially over the main-video;
- a third record device for recording the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;
- a second record device for recording a play list information file for collectively storing in an area which is different from an area into which the object data file is stored, a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item;

a third record device for recording an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item;

a reproduction device for reproducing the play list information the object information which corresponds to the play list information, the video information of the first stream which corresponds to the object information, the sub-video information and the sub-video control information of the second stream which corresponds to the object information:

a display output device capable of <del>displaying and</del> outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device, to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

36. (previously presented) The information record reproduction apparatus according to claim 35, wherein

the third record device records the sub-video control

information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set to advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control device controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the type indication information which is included in the reproduced sub-video control information.

37. (currently amended) An information record reproduction method comprising:

a first record process of recording <u>an object data file</u>

for collectively storing object data which includes a first

stream having video information to indicate a main-video <u>and a</u>

second stream having sub-video information sub-video control

information wherein, \*\*

a second record process of recording the sub-video information—to—indicate indicating a sub-video displayable at least partially over the main-video.\*

a third record process of recording the sub-video

control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a second record process of recordinu a play list information file for collectively storinE, in an area which is different from an area into which the object data file is stored, a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the secOnd streams by a unit of item; and

a third record process of recording an object information file for collectively storing object information which includes information for indicating a storinE position of the first and second streams corresponding to each item

a reproduction process of reproducing the play list information the object information which corresponds to the play list information, the video information of the first stream which corresponds to the object information, the sub-video information and the sub-video control information of the second stream which corresponds to the object information; and

a control process of controlling a display output device capable of displaying and outputting the reproduced subvideo information over the reproduced video information, to display-control the sub-video information in the method and

display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

38. (previously presented) The information record reproduction method according to claim 37, wherein

the third record process records the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control process controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the type indication information which is included in the reproduced sub-video control information.

39. (currently amended) A computer-readable storage

medium storing thereon a computer program for a record control, to control a computer disposed at an information record apparatus comprising:

a first record device for recording <u>an object data file</u>

for collectively storing object data which includes a first

stream having video information to indicate a main-video <u>and a</u>

second stream having sub-video information sub-video control

information wherein+

a second record device for recording the sub-video information to indicate indicating a sub-video displayable at least partially over the main-video, and

a third record device for recording the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element; a second record device for recording a play list information file for collectively storing in an area which is different from an area into which the object data file is stored a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item; and a third record device for recording an object information file for collectively storing object information which includes information for indicating a storing position of the first and

## second streams corresponding to each item,

said computer program making the computer function as at least a part of the first record device, the second record device and the third record device.

40. (currently amended) A computer-readable storage medium storing thereon a computer program product for a reproduction control to control a computer disposed at an information reproduction apparatus for reproducing information on an information record medium on which there are recorded:

an object data file for collectively storing object data which includes a first stream having video information to indicate a main-video and a second stream having sub-video information, sub-video control information, wherein, +

the sub-video information to indicate indicating a subvideo displayable at least partially over the main-video, and an article of the main-video, and article of the main-video, article of the main-video, and article of the main-video, and article of the main-video, article of the main-video, and article of the main-video, article of the main-video, article of the main-video, and article of the main-video, article of the main-video,

the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements a play list information file for collectively storing in an area which is different from an area into which the object data file is stored, a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the

second streams by a unit of item; and an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item,, said information reproduction apparatus comprising:

- a reproduction device for reproducing the play list information the object information which corresponds to the play list information, the video information of the first stream which corresponds to the object information, the sub-video information and the sub-video control information of the second stream which corresponds to the object information:
- a display output device capable of <del>displaying and</del> outputting the reproduced sub-video information over the reproduced video information; and
- a control device for controlling the display output device to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

said computer program product making the computer function as at least a part of the reproduction device, the display output device and the control device.

41. (currently amended) A computer-readable storage medium storing thereon a computer program product for a record reproduction control to control a computer disposed at an information record reproduction apparatus comprising:

a first record device for recording <u>an object data file</u>

for collectively storing object data which includes a first

stream having video information to indicate a main-video <u>and a</u>

second stream having sub-video information sub-video control

information, wherein, \*\*

a second record device for recording the sub-video information to indicate indicating a sub-video displayable at least partially over the main-video, #

a third record device for recording the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a second record device for recording a ylay list information file for collectively storing, in an area which is different from an area into which the object data file is stored a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item:

a third record device for recording an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item;

a reproduction device for reproducing the play list information, the object information which corresponds to the play list information the video information of the first stream which corresponds to the object information, the sub-video information and the sub-video control information of the second stream which corresponds to the object information:

a display output device capable of <del>displaying and</del> outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device, to display-control the sub-video information in the methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information,

said computer program product making the computer function as at least a part of the first record device, the second record device, the third record device, the reproduction device, the display output device and the control device.

42. (currently amended) A computer readable-storage medium encoded with a data structure including a control signal, said data structure having:

an object data file for collectively storing object data which includes a first stream having video information to indicate a main-video and a second stream having sub-video information, sub-video control information, wherein.

the sub-video information to indicate-indicating a sub-video displayable at least partially over the main-video,; and

the sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a play list information file for collectively storing in an area which is different from an area into which the object data file is stored a play list information which defines a plurality of item information each indicating a start time and an end time of the first and the second streams by a unit of item; and

an object information file for collectively storing object information which includes information for indicating a storing position of the first and second streams corresponding to each item.

43. (previously presented) The computer readablestorage medium encoded with a data structure including a control signal according to claim 42, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.